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**WHAT IS CLAIMED IS:**

1           1.       A method for processing a source document in a structured document format  
2 including elements providing source content to render, wherein the source content comprises  
3 code that is rasterized into output, comprising:  
4           receiving the source document;  
5           receiving a layout data structure providing formatting properties specifying a layout and  
6 format of the content output;  
7           processing the source document and the layout data structure to determine formatting  
8 properties, including page divisions, for the content in the source document;  
9           generating multiple page objects, wherein each page object includes source content and  
10 formatting properties for one page; and  
11           transmitting the page objects to a rasterizer to transform into renderable information  
12 capable of being generated by an output device.

1           2.       The method of claim 1, wherein the source document includes statements in a  
2   first presentation language, further comprising:  
3           transforming the source document and source content therein into a result document in a  
4   second presentation language, wherein the result document includes the source content and the  
5   formatting properties provided by the layout data structure, wherein the formatting properties  
6   indicate page divisions of the content, and wherein the multiple page objects are generated from  
7   the result document.

1           3.       The method of claim 2, wherein the layout data structure comprises a separate  
2 document from the source document.

Figure 1 consists of 12 histograms arranged in a 6x2 grid. The columns are labeled 'n = 10' and 'n = 20'. The rows are labeled 'm = 10', 'm = 20', 'm = 30', 'm = 40', 'm = 50', and 'm = 60'. The x-axis for all histograms is 'Number of non-zero elements' ranging from 0 to 100. The y-axis is 'Frequency' ranging from 0 to 10. The distributions are generally bell-shaped and centered around 50, with the frequency increasing as n and m increase.

1           10.     The method of claim 1, wherein the page objects include content and formatting  
2 properties in a device independent presentation language.

[illegible]

1           15.     A system for processing a source document in a structured document format  
2 including elements providing source content to render, wherein the source content comprises  
3 code that is rasterized into output, comprising:  
4           means for receiving the source document;  
5           means for receiving a layout data structure providing formatting properties specifying a  
6 layout and format of the content output;  
7           means for processing the source document and the layout data structure to determine  
8 formatting properties, including page divisions, for the content in the source document;  
9           means for generating multiple page objects, wherein each page object includes source  
10 content and formatting properties for one page; and  
11           means for transmitting the page objects to a rasterizer to transform into renderable  
12 information capable of being generated by an output device.

1           16.    The system of claim 15, wherein the source document includes statements in a  
2 first presentation language, further comprising:  
3           means for transforming the source document and source content therein into a result  
4 document in a second presentation language, wherein the result document includes the source  
5 content and the formatting properties provided by the layout data structure, wherein the  
6 formatting properties indicate page divisions of the content, and wherein the multiple page  
7 objects are generated from the result document.

1           17.    The system of claim 16, wherein the layout data structure comprises a separate  
2 document from the source document.

1           18.    The system of claim 15, wherein the first presentation language comprises the  
2 Extensible Markup Language (XML) and wherein the second presentation language comprises  
3 Extensible Stylesheet Language Formatting Objects (XSL-FO), and wherein the page layout  
4 data structure comprises an XSL stylesheet.

1           19.    The system of claim 15, wherein the page objects include formatting properties  
2 in a third presentation language.

1           20.    The system of claim 19, wherein the first presentation language comprises the  
2 Extensible Markup Language (XML), wherein the second presentation language comprises  
3 Extensible Stylesheet Language Formatting Objects (XSL-FO), wherein the third presentation  
4 language comprises the Mixed Object Document Content Architecture (MO:DCA), and  
5 wherein the layout data structure comprises an XSL stylesheet.

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1 21. The system of claim 19, wherein the third presentation language comprises a  
2 page description language.

1 22. The system of claim 16, wherein the page objects include content and  
2 formatting properties in the second presentation language.

1 23. The system of claim 16, wherein the second presentation language comprises  
2 Extensible Stylesheet Language Formatting Objects (XSL-FO).

1 24 ~~25~~. The system of claim 15, wherein the page objects include content and  
2 formatting properties in a device independent presentation language.

1 25 ~~26~~. The system of claim 15, wherein the source content is in a page description  
2 language.

1 26 ~~27~~. The system of claim 15, wherein the source document and page objects include  
2 the formatting properties in a same presentation language.

1 27 ~~28~~. The system of claim 15, wherein the page object includes content and  
2 formatting properties for one page.

1 28 ~~29~~. The system of claim 15, wherein the source document does not indicate page  
2 divisions for the content.

1 29 ~~30~~. An article of manufacture for processing a source document in a structured  
2 document format including elements providing source content to render, wherein the source

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3 content comprises code that is rasterized into output, and wherein the article of manufacture  
4 comprises code capable of causing a processor to perform:  
5 receiving the source document;  
6 receiving a layout data structure providing formatting properties specifying a layout and  
7 format of the content output;  
8 processing the source document and the layout data structure to determine formatting  
9 properties, including page divisions, for the content in the source document;  
10 generating multiple page objects, wherein each page object includes source content and  
11 formatting properties for one page; and  
12 transmitting the page objects to a rasterizer to transform into renderable information  
13 capable of being generated by an output device.

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1 <sup>30</sup>~~31~~ The article of manufacture of claim <sup>29</sup>~~30~~, wherein the source document includes  
2 statements in a first presentation language, and wherein the code is further capable of causing  
3 the processor to perform:  
4 transforming the source document and source content therein into a result document in a  
5 second presentation language, wherein the result document includes the source content and the  
6 formatting properties provided by the layout data structure, wherein the formatting properties  
7 indicate page divisions of the content, and wherein the multiple page objects are generated from  
8 the result document.

1 <sup>31</sup>~~32~~ The article of manufacture of claim <sup>30</sup>~~31~~, wherein the layout data structure  
2 comprises a separate document from the source document.

1 <sup>32</sup>~~33~~ The article of manufacture of <sup>30</sup>~~31~~, wherein the first presentation language  
2 comprises the Extensible Markup Language (XML) and wherein the second presentation

- 3 language comprises Extensible Stylesheet Language Formatting Objects (XSL-FO), and  
4 wherein the page layout data structure comprises an XSL stylesheet.

- 1 <sup>33</sup>~~34~~. The article of manufacture of <sup>30</sup>~~31~~, wherein the page objects include formatting  
2 properties in a third presentation language.

- 34 33
- 1 ~~35.~~ The article of manufacture of ~~34~~, wherein the first presentation language
- 2 comprises the Extensible Markup Language (XML), wherein the second presentation language
- 3 comprises Extensible Stylesheet Language Formatting Objects (XSL-FO), wherein the third
- 4 presentation language comprises the Mixed Object Document Content Architecture
- 5 (MO:DCA), and wherein the layout data structure comprises an XSL stylesheet.

- 1        <sup>35</sup>~~36.~~ The article of manufacture of claim <sup>33</sup>~~34~~, wherein the third presentation language  
2 comprises a page description language.

- 36 30
- 1 37. The article of manufacture of claim 31, wherein the page objects include
- 2 content and formatting properties in the second presentation language.

- 1        <sup>37</sup>  
38        The article of manufacture of claim <sup>30</sup>~~31~~, wherein the second presentation  
2        language comprises Extensible Stylesheet Language Formatting Objects (XSL-FO).

- 1 ~~39.~~ The article of manufacture of claim ~~31~~<sup>30</sup>, wherein the page objects include
- 2 content and formatting properties in a device independent presentation language.

- 1                    39                    29  
2                    40.                    30. The article of manufacture of claim 30, wherein the source content is in a page  
description language.



